

International application No.
PCT/JP02/06162

A. CLASSIFICATION OF SUBJECT MATTER			
Int.Cl <sup>7</sup> F02M51/00, F02M59/34			
and the second s			
According to International Patent Classification (IPC) or to both national classification and IPC			
B. FIELDS SEARCHED			
Minimum documentation searched (classification system followed by classification symbols)  Int.Cl <sup>7</sup> F02M51/00, F02M59/34			
IIIC. CI FUZNOI/ 50/ 102/20/ 5			
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched			
Jitsuyo Shinan Koho 1922—1996 Toroku Jitsuyo Shinan Koho 1994—2002 Kokai Jitsuyo Shinan Koho 1971—2002 Jitsuyo Shinan Toroku Koho 1996—2002			
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)			
Electronic data base consulted during the international scalen (hante of data base and, whole placebook, scales, server above)			
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C. DOCUI	MENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where app		Relevant to claim No.
Х	JP 8-303325 A (Aisan Industr	y Co., Ltd.),	1-2,4-8, 10,18
Y	19 November, 1996 (19.11.96), Full text; all drawings	ļ	3,9,11-17,
-	(Family: none)		19-23
Y	JP 10-288105 A (Toyota Motor	Corp.),	3,9,11-17,
	27 October, 1998 (27.10.98),		19
ļ	<pre>Full text; all drawings (Family: none)</pre>		
		Corp. \	20-23
Y	JP 63-117147 A (Toyota Motor 21 May, 1988 (21.05.88),	COTD:),	20-23
	Full text; all drawings		
	(Family: none)		
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	er documents are listed in the continuation of Box C.	See patent family annex.	
<u> </u>		"T" later document published after the inte	emational filing date or
"A" document defining the general state of the art which is not		priority date and not in conflict with t understand the principle or theory und	he application but cited to
considered to be or particular role that published on or after the international filing "X" docume			claimed invention cannot be
date	nent which may throw doubts on priority claim(s) or which is	step when the document is taken along	e
special reason (as specified)		considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art	
"O" document referring to an oral disclosure, use, exhibition or other means			
"P" docum	nent published prior to the international filing date but later the priority date claimed	"&" document member of the same patent	
Date of the	actual completion of the international search	Date of mailing of the international sear 08 October, 2002 (6	
20 5	September, 2002 (20.09.02)	00 OCTOBET, 2002 (1	
Name and mailing address of the ISA/  Authorized officer			
Japanese Patent Office			
Facsimile N	No.	Telephone No.	